H. Park ●   ●

> **This Raw Listing contains the General Information Section and up to the first 5 pages.**

```
1                              SEQUENCE LISTING
2
3    (1)     General Information:
4
5         (i)  APPLICANT: Chandrasegaran, Srinivasan
6
7        (ii)  TITLE OF INVENTION: A GENERAL METHOD TO CLONE HYBRID
8              RESTRICTION ENDONUCLEASES USING lig GEN    ENTERED
9
10     (iii)  NUMBER OF SEQUENCES: 35
11
12      (iv)  CORRESPONDENCE ADDRESS:
13              (A) ADDRESSEE: Cushman Darby & Cushman L.L.P.
14              (B) STREET: 1100 New York Avenue, NW, Ninth Floor, East
15                      Tower
16              (C) CITY: Washington
17              (D) STATE: DC
18              (E) COUNTRY: USA
19              (F) ZIP: 20005-3918
20
21       (v)  COMPUTER READABLE FORM:
22              (A) MEDIUM TYPE: Floppy disk
23              (B) COMPUTER: IBM PC compatible
24              (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25              (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
26
27      (vi)  CURRENT APPLICATION DATA:
28              (A) APPLICATION NUMBER: 09/281,792
29              (B) FILING DATE:
30              (C) CLASSIFICATION:
31
32     (vii)  PRIOR APPLICATION DATA:
33              (A) APPLICATION NUMBER: 08/575,361
34              (B) FILING DATE:
35
36
37    (viii)  ATTORNEY/AGENT INFORMATION:
38              (A) NAME: Kokulis, Paul N.
39              (B) REGISTRATION NUMBER: 16,773
40              (C) REFERENCE/DOCKET NUMBER: PNK/4130/213779/DJP
41
42      (ix)  TELECOMMUNICATION INFORMATION:
43              (A) TELEPHONE: 202-861-3000
44              (B) TELEFAX: 202-822-0944
45              (C) TELEX: 6714627 CUSH
46
```

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```
47
48    (2) INFORMATION FOR SEQ ID NO:1:
49
50        (i) SEQUENCE CHARACTERISTICS:
51            (A) LENGTH: 23 amino acids
52            (B) TYPE: amino acid
53            (D) TOPOLOGY: linear
54
55
56
57        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
58
59        Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu              '
60        1               5                   10                  15
61
62        Xaa Xaa His Xaa Xaa Xaa His
63                    20
64
65    (2) INFORMATION FOR SEQ ID NO:2:
66
67        (i) SEQUENCE CHARACTERISTICS:
68            (A) LENGTH: 24 amino acids
69            (B) TYPE: amino acid
70            (D) TOPOLOGY: linear
71
72
73
74        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
75
76        Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
77        1               5                   10                  15
78
79        Xaa Xaa His Xaa Xaa Xaa Xaa His
80                    20
81
82    (2) INFORMATION FOR SEQ ID NO:3:
83
84        (i) SEQUENCE CHARACTERISTICS:
85            (A) LENGTH: 25 amino acids
86            (B) TYPE: amino acid
87            (D) TOPOLOGY: linear
88
89
90
91        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
92
93        Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
94        1               5                   10                  15
95
96        Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
97                    20                  25
98
99    (2) INFORMATION FOR SEQ ID NO:4:
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RAW SEQUENCE LISTING
PATENT APPLICATION *US/09/281,792*

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100
101        (i) SEQUENCE CHARACTERISTICS:
102            (A) LENGTH: 24 amino acids
103            (B) TYPE: amino acid
104            (D) TOPOLOGY: linear
105
106
107
108       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
109
110        Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
111        1               5                   10                  15
112
113        Leu Xaa Xaa His Xaa Xaa Xaa His
114                    20
115
116   (2) INFORMATION FOR SEQ ID NO:5:
117
118        (i) SEQUENCE CHARACTERISTICS:
119            (A) LENGTH: 25 amino acids
120            (B) TYPE: amino acid
121            (D) TOPOLOGY: linear
122
123
124
125       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
126
127        Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
128        1               5                   10                  15
129
130        Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
131                    20                  25
132
133   (2) INFORMATION FOR SEQ ID NO:6:
134
135        (i) SEQUENCE CHARACTERISTICS:
136            (A) LENGTH: 26 amino acids
137            (B) TYPE: amino acid
138            (D) TOPOLOGY: linear
139
140
141
142       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
143
144        Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
145        1               5                   10                  15
146
147        Leu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
148                    20                  25
149
150   (2) INFORMATION FOR SEQ ID NO:7:
151
152        (i) SEQUENCE CHARACTERISTICS:
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153                    (A)  LENGTH: 25 amino acids
154                    (B)  TYPE: amino acid
155                    (D)  TOPOLOGY: linear
156
157
158
159          (xi)  SEQUENCE DESCRIPTION: SEQ ID NO:7:
160
161          Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
162          1               5                   10                  15
163
164          Xaa Leu Xaa Xaa His Xaa Xaa Xaa His
165                      20                  25
166
167    (2)  INFORMATION FOR SEQ ID NO:8:
168
169          (i)  SEQUENCE CHARACTERISTICS:
170                    (A)  LENGTH: 26 amino acids
171                    (B)  TYPE: amino acid
172                    (D)  TOPOLOGY: linear
173
174
175
176          (xi)  SEQUENCE DESCRIPTION: SEQ ID NO:8:
177
178          Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
179          1               5                   10                  15
180
181          Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
182                      20                  25
183
184    (2)  INFORMATION FOR SEQ ID NO:9:
185
186          (i)  SEQUENCE CHARACTERISTICS:
187                    (A)  LENGTH: 27 amino acids
188                    (B)  TYPE: amino acid
189                    (D)  TOPOLOGY: linear
190
191
192
193          (xi)  SEQUENCE DESCRIPTION: SEQ ID NO:9:
194
195          Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
196          1               5                   10                  15
197
198          Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
199                      20                  25
200
201    (2)  INFORMATION FOR SEQ ID NO:10:
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203          (i)  SEQUENCE CHARACTERISTICS:
204                    (A)  LENGTH: 23 amino acids
205                    (B)  TYPE: amino acid
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206              (D) TOPOLOGY: linear
207
208
209
210        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
211
212        Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
213        1               5                   10                  15
214
215        Xaa Xaa His Xaa Xaa Xaa His
216                  20
217
218   (2) INFORMATION FOR SEQ ID NO:11:
219
220        (i) SEQUENCE CHARACTERISTICS:
221              (A) LENGTH: 24 amino acids
222              (B) TYPE: amino acid
223              (D) TOPOLOGY: linear
224
225
226
227        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
228
229        Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
230        1               5                   10                  15
231
232        Xaa Xaa His Xaa Xaa Xaa Xaa His
233                  20
234
235   (2) INFORMATION FOR SEQ ID NO:12:
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237        (i) SEQUENCE CHARACTERISTICS:
238              (A) LENGTH: 25 amino acids
239              (B) TYPE: amino acid
240              (D) TOPOLOGY: linear
241
242
243
244        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
245
246        Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
247        1               5                   10                  15
248
249        Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
250                  20                  25
251
252   (2) INFORMATION FOR SEQ ID NO:13:
253
254        (i) SEQUENCE CHARACTERISTICS:
255              (A) LENGTH: 24 amino acids
256              (B) TYPE: amino acid
257              (D) TOPOLOGY: linear
258
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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/281,792*

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Line	Error	Original Text

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION   *US/09/281,792*

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< < THERE ARE NO ITEMS MISSING > >

SEQUENCE CORRECTION REPORT
PATENT APPLICATION *US/09/281,792*

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Line   Original Text   Corrected Text